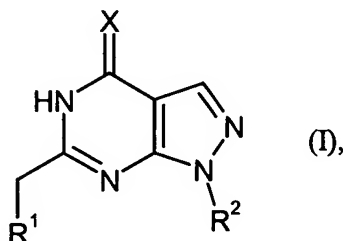


New Claims (Attorney Docket No. LeA 36 230)

13. (New) The process of claim 5, wherein the sulfurizing agent is diphosphorus pentasulfide.

Amended Claims (Attorney Docket No. LeA 36 230)

1. (Original) A compound of the formula



in which

R¹ is phenyl which is substituted by 1 to 5 substituents independently of one another selected from the group of halogen, C₁-C₆-alkyl, trifluoromethyl, trifluoromethoxy, cyano, hydroxy, nitro and C₁-C₆-alkoxy,

R² is pentan-3-yl, C₄-C₆-cycloalkyl,

X is oxygen or sulfur,

and the salts, solvates and/or solvates of the salts thereof.

2. (Original) A compound as claimed in claim 1, where

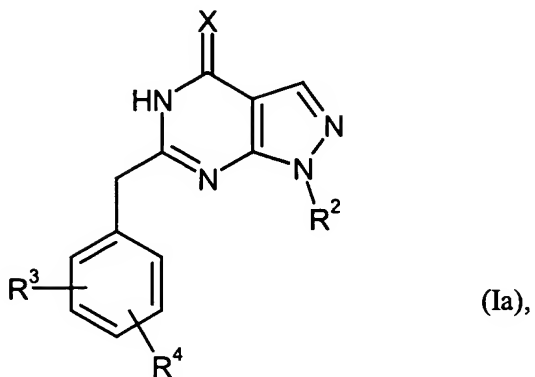
R¹ is phenyl which is substituted by 1 to 3 substituents independently of one another selected from the group of fluorine, chlorine, bromine, C₁-C₄-alkyl, trifluoromethyl, trifluoromethoxy, cyano, hydroxy, nitro and C₁-C₄-alkoxy,

R² is pentan-3-yl, C₅-C₆-cycloalkyl,

X is oxygen or sulfur,

and the salts, solvates and/or solvates of the salts thereof.

3. (Currently amended) A compound as claimed in ~~claims~~ claim 1 and ~~2~~ of the formula



in which

R³ is hydrogen or chlorine,

R⁴ is fluorine, chlorine, bromine, methyl, trifluoromethyl,

R² is pentan-3-yl, cyclopentyl,

X is oxygen or sulfur,

and the salts, solvates and/or solvates of the salts thereof.

4. (Currently amended) A compound as claimed in ~~claims~~ claim 1 to ~~3~~ of the formula (Ia),
where

R³ is hydrogen or chlorine,

R⁴ is fluorine, chlorine, bromine, methyl, trifluoromethyl,

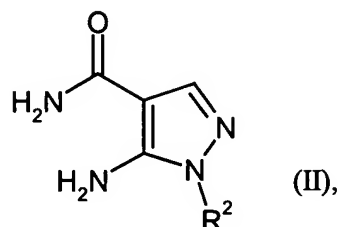
R² is pentan-3-yl, cyclopentyl,

X is oxygen,

and the salts, solvates and/or solvates of the salts thereof.

5. (Currently amended) A process for preparing compounds as claimed in claim 1, characterized in that

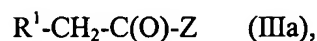
[A] compounds of the formula



in which

R^2 has the meanings indicated in claim 1,

are converted by reaction with a compound of the formula



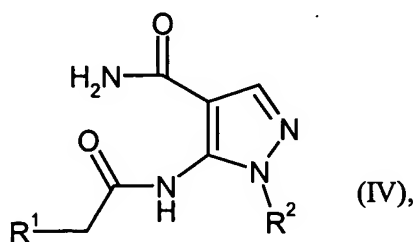
in which

R^1 has the meanings indicated in claim 1,

and

Z is chlorine or bromine,

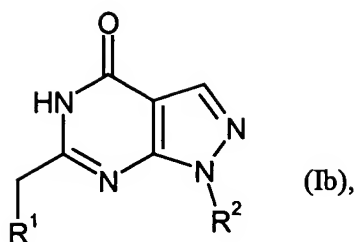
initially in the presence of a base into compounds of the formula



in which

R^1 and R^2 have the meanings indicated in claim 1,

then cyclized in the presence of a base to compounds of the formula

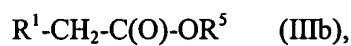


in which

R^1 and R^2 have the meanings indicated in claim 1,

or

[B] compounds of the formula (II) are reacted with direct cyclization to (Ib) with a compound of the formula



in which

R^1 has the meanings indicated in claim 1,

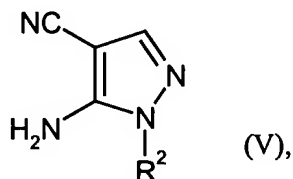
and

R^5 is methyl or ethyl,

in the presence of a base,

or

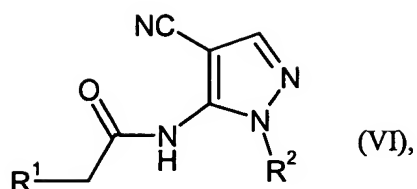
[C] compounds of the formula



in which

R^2 has the meanings indicated in claim 1,

are converted initially by reaction with a compound of the formula (IIIa) in the presence of a base into compounds of the formula

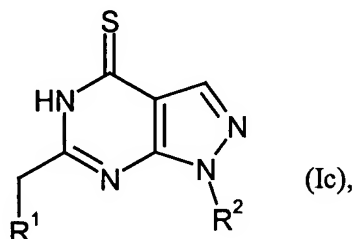


in which

R¹ and R² have the meanings indicated in claim 1,

and the latter are cyclized in a second step in the presence of a base and of an oxidizing agent to (Ib),

and the compounds of the formula (Ib) are then converted where appropriate by reaction with a sulfurizing agent such as, for example, diphosphorus pentasulfide into the thiono derivatives of the formula



in which

R¹ and R² have the meanings indicated in claim 1,

and the resulting compounds of the formula (I) are reacted where appropriate with the appropriate (i) solvents and/or (ii) bases or acids to give the solvates, salts and/or solvates of the salts thereof.

6. (Cancelled).
7. (Original) A medicament comprising at least one of the compounds as claimed in any of claims 1 to 4 and at least one pharmaceutically acceptable, essentially non-toxic carrier or excipient.
8. (Currently amended) ~~The use of the compounds as claimed in any of claims 1 to 4 for producing a medicament~~ A method for the prophylaxis and/or treatment of impairments of

perception, concentration, learning and/or memory comprising administering to a human or animal an effective amount of a compound of claim 1.

9. (Currently amended) The ~~use~~ method as claimed in claim 8, where the impairment is a consequence of Alzheimer's disease.
10. (Currently amended) ~~The use of the compounds as claimed in any of claims 1 to 4 for producing a medicament~~ A method for improving perception, concentration, learning and/or memory comprising administering to a human or animal an effective amount of a compound of claim 1.
11. (Cancelled).
12. (Cancelled).